SCOPE OF WORK

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a) **Objectives of Bid document**:

Licensing of space on pillars of Line-1, Line-2, Reach-5 & Reach-6 for placement and operation of telecom equipment for providing mobile shared coverage as per terms and conditions of this Bid document.

- To augment non-operational revenue of BMRCL through Licensing of space on pillars.
- To provide mobile coverage in periphery of metro alignment.

Pillars/Spaces/locations offered on license basis are 'as is where is basis'.

b) **Scope:**

(i) In elevated section of BMRCL, the stations and viaduct are raised on pillars. The viaduct is supported on single pillar located in median of road having average cross-sectional area of 3 – 6 Sqm. It may be square, circular or oval in shape. The surface may be smooth or corrugated. The bottom of viaduct indicating road clearance is 5.5m to 6m at road crossing. If it is an over bridge crossing road, this clearance may be 15m to 18m. in some sections, the viaduct is supported on two columns.

(ii) Space on pillar: BMRCL shall provide 1.5m of wide space below viaduct from the cap of the Pillar on the metro pillars for clamping of telecommunication equipment. The clamped equipment should be installed below bottom of pier cap and should not protrude/project beyond 600 mm of pillar surface. Road /traffic conditions and regulations of civic/statutory authorities in regard to installations nearby road must be taken care of by the licensee.

(iii) The spaces on metro pillars are hereby offered for placement and operation of telecom equipment for providing mobile coverage of 5G in periphery of BMRCL metro alignment. (Annexure-XII of Section-VII-Appendix and Annexures).

(iv) The selected Bidder(s) shall be licensed with the offered spaces, according to their bid, for placement and operation of telecom equipment for providing mobile coverage of 5G periphery of BMRCL metro alignment (Annexure-XII of Section-VII-Appendix and Annexures), as per terms and conditions of this Bid document, hereinafter referred to as "Permitted Activity", subject to the terms and conditions specified in the Bid document/draft license agreement and the guidelines stipulated herein in relation to the permitted activity: at the pillars/sites/locations with tentative tendered area as detailed in Annexure-XII of Section-VII-Appendix and Annexures.

(v) The telecom solution as a concept shall be offered by the licensee whereby with single common infrastructure all existing and upcoming mobile operators can serve their customers in an easy and efficient manner. The said telecom solutions shall offer shared solution for various types of telecom operators.

(vi) The Selected Bidder (s) shall be required to set up and manage the common shared cell telecom solution at the Licensed premises. The Selected Bidder shall in turn provide the services of telecom solution to various telecom operators and other agencies by charging them appropriate licensee fee. The Selected Bidder in turn shall pay a fixed amount of monthly licensee fee and other charges along with applicable taxes, quarterly in advance, to BMRCL.

(vii) The Licensee shall operate the licensed space for placement and operation telecom equipment for providing shared mobile coverage of 5G in periphery of BMRCL metro alignment. For the purpose of placement of equipment, the Licensee shall submit the design/layout of the location of placement of equipment along with other relevant details. BMRCL shall consider the plan

with respect to aesthetics, operational feasibility, and safety and security concerns. If the part of plan is not acceptable to BMRCL Licensee is required to submit revised plan for approval. All further modification/revision in plan shall have to be got approved from BMRCL.

(viii) The Licensee shall design of all units/structures to complement the pillar architecture for installation of telecommunication equipment.

(ix) The Licensee is responsible for the procurement, fabrication, installation & erection of equipment. The equipment inventory shall be within the licensed premises only. Licensee shall prepare the plan for approval from BMRCL.

(x) The Licensee shall operate, manage and maintain the entire premises.

(xi) Licensee shall interface with Civil/Electrical/Operation & Maintenance (O&M) /Signal & Telecom wings of BMRCL during execution of work.

(xii) After completion of work as built drawings shall be submitted by the Licensee to BMRCL.

(xiii) Pillars/Spaces/locations offered on license basis are 'as is where is basis'.

(xiv) License fee shall be charged on per pillar/month basis for the aforesaid pillar space. Minimum number of pillars that shall be invoiced is 50 pillars.

(xv) The accepted License fee for successful bidder shall be applicable up to 5G only during the tenure of License Agreement. In case of any technological up-gradation beyond 5G, the License fee of Space shall be reviewed on the same terms and conditions. In event of failure of finalization of same license fee of space, the License Agreement shall be terminated by BMRCL as per terms and conditions of License Agreement.

(xvi) Ensure regular and timely payments of all amounts due to BMRCL and discharge all obligations as per License Agreement.

(xvii) The Optical Fibre Cable or any other cable laid in ROW shall be used for linking of its equipment for permitted activity only. Details are to be submitted for review and approval of BMRCL.

(xviii) Based on availability and technical feasibility, BMRCL shall provide, at its discretion:

a) Right of Way (ROW) may be provided and viaduct to connect equipment for laying of OFC and power cables along station building area as per instructions of BMRCL. However, such cables shall be supplied & laid as per guidelines and specifications of BMRCL e.g. FRLS cables to be used in elevated section and LSZH in underground section.

b) Access to BMRCL's Optical Fibre Cables(OFC) to Licensee on BMRCL's fixed price. Fibre can enter/exit at stations

However, the OFC can run below the viaduct for connecting equipment on pillars.

(xix) Any space requirement at any elevated metro station for placement of backhaul equipment & linking this equipment shall be provided subject to minimum of 1sqm & technical feasibility and license fee for such allotted space shall be as same as rates specified in the Bid document/License Agreement for IBS Room space. Additional area, if required, shall be provided on pro- rata basis, if feasible. Infrastructure of 2 different contracts are not to be shared.

(xx) The Licensed Space shall only be utilized by the Licensee or its associates/permitted

operators as per Terms and Conditions of RFP Document/Draft License Agreement.

(xxi) The Pillars shall exclusively belong to BMRCL, without creating any right, title or interest of whatsoever nature in the said Licensed Premises in favour of the Licensee.

(xxii) Obtain all approvals, permits, etc from all competent and required authorities, including different tiers of government, statutory, local, civic authorities, TRAI, DOT Govt of India etc,.at its own cost.

(xxiii) Comply with all statutory requirements in connection with License Agreement.

(xxiv) The Licensee shall ensure compliance with permissible radiation limits for mobile towers/antennas as laid down by Municipal Corporation / State Government / Department of Telecommunications, etc. from time to time.

(xxv) The Licensee shall be responsible for obtaining necessary permissions from Department of Telecommunications (DoT) and comply with all the guidelines issued by DoT from time to time and applicable law for undertaking the Permitted Activity in the Licensed Premises. Any law/instruction issued by Local Authority, in this regard, shall also be adhered to.

(xxvi) After the expiry of tender period, all passive infrastructure shall become the asset of BMRCL. Contractor shall only take away the active elements.